SAMSUNG

Portable MP3-CD Player
MCD-SF85

MP3-CD/CD-R/RW Playback

Instruction Manual

SAMSUNG
ELECTRONICS

Main Features

SBS function

The SBS function produces rich, deep bass tones for a more powerful overall sound.

FM Radio Reception

You can listen to FM radio using various functions such as the automatic tuning, preset FM stations, and etc.

Album function (MP3-CD Only)

The Album function allows easy browsing and searching of your favorite tunes by album name, song title and artist.

ESP function

The ESP function ensures high resistance to shock or vibration so that the sound signal remains undisturbed (up to 120 seconds for MP3 and 45 seconds for a CD).

Last Memory function (MP3-CD Only)

The Last Memory function allows you to listen to a song from the point you left off - handy for when you have to answer the phone or door.

What is MP3?

MP3 means MPEG1 Layer 3, the global standard for audio signal compression technology. It uses digital compression technology to compress original sound data by up to 12 times without sound quality degradation.

File Compatibility

● The unit will play back files created in MP3 format (Mpeg1.Layer 3) with *.mp3 as their extension.
● Files created in MP2 format (Mpeg1.Layer2) with *.mp2 as their extension can also be played back.

How many MP3 files can a CD-R or CD-RW disc record?

● The maximum capacity of one CD-R or CD-RW disc is 680MB.
Normally, one MP3 file has a capacity of 4MB, therefore approximately 170 files can be recorded on a single disc.

Contents
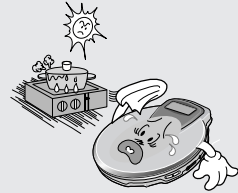
GB

Safety Warning

Take care not to allow dust or other contaminants to come into contact with your player.

Do not apply heavy pressure to the player.

Do not leave your player in direct sunlight or near a heat source.

Do not put anything other than a CD (CD-R or CD-RW) inside your player.
● Such actions will damage your player.

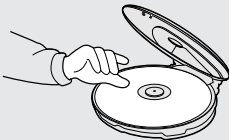**Do not use broken or scratched MP3 CDs.**

Do not use your player on uneven or unstable surfaces.
● Your player may not operate properly.

Do not touch the lens with your finger or scratch it.
● Your player may not operate properly.

Do not place your player in a dusty or humid location.

Do not attempt to take apart, repair or modify your player.
● Such actions will damage your player.

Earphones

Road safety
● Do not use the earphones while riding a bicycle, driving any kind of motor vehicle or motorcycle.
This is very dangerous and is illegal in certain regions.
It is dangerous to wear earphones at high volume while crossing roads.

In order to protect your hearing
● Do not wear the earphones with the volume set too high.
Doctors state that listening to music at high volume for prolonged periods is harmful to hearing.
● If you experience a ringing in your ears, reduce the volume or stop listening.

Warning : Please do not use earphones of other companies besides those of this company.

Ambient operating conditions

● Ambient temperature : 5°C~35°C (41°F~95°F)
Humidity   : 10~75%

Environmental information

● Your unit consists of materials which can be recycled if disassembled by a specialized company. Please observe local regulations regarding the disposal of packing materials, exhausted batteries and old equipment.
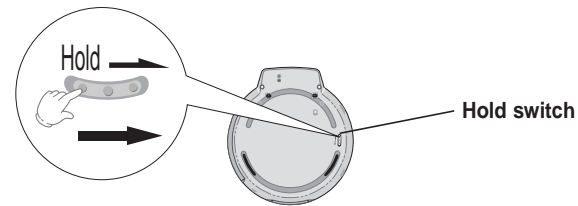
Buttons and Controls

Main Unit

1.	**Program button** (Refer to pages 20, 21)
2.	**ESP/Album button** (Refer to pages 18, 19)
3.	**+10 button** (Refer to page 18)
4.	**Skip/Search buttons** (Refer to page 14)
5.	**Stop button**
6.	**Play/Pause button**
7.	**Mode button** (Refer to page 15)

8.	**Open switch**
9.	**Last Memory/SBS button** (Refer to page 16)
10.	**Volume**
11.	**Remote control Connection jack** (Refer to page 9)
12.	**Line Out output jack** (Refer to page 9)
13.	**Power Input Jack** (Refer to page 10)

Bottom of the Main Unit
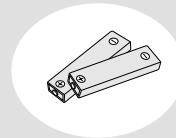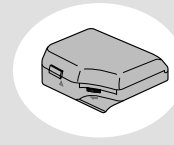
Hold

Hold switch

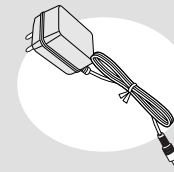## Accessories

Remote Control
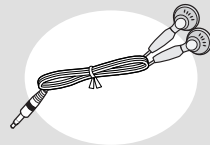
Earphone

Rechargeable Batteries
(Ni-MH: 1350mAh 1.2V) x 2

External battery pack

AC adaptor

5

6

Buttons and Controls

Front
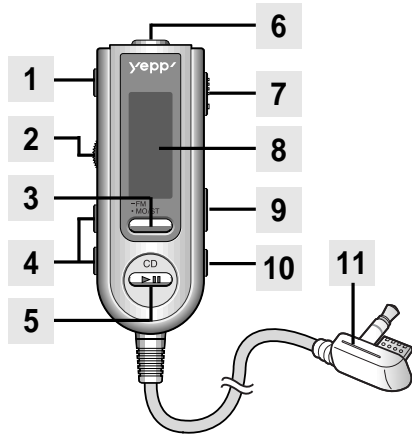
1. **Stop/Power off button**

2. **Volume**

3. **– FM button**
   • Mo/ST button

4. `CD` **Skip/Search button**
   `Radio` **Automatic Tuning button**

5. **CD Power On/Play/Pause button**

6. **Earphone jack**

7. **Hold switch** (see page 14)

8. **Display**

9. **AL/+10/MEM. button**

10. **Mode/P.SET button**

11. **Main Unit connection jack**

Rear
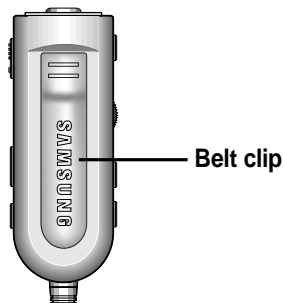
Belt clip

Display

The picture of the display panel below is based on MP3-CD playback.

1. PROGRAM indicator

2. SBS Indicator

3. RANDOM indicator

4. REPEAT indicator

5. ESP Indicator

6. Remaining Battery Power indicator

7. Anti-S.T. (Anti-shock Time) Buffer Level meter

8. Playtime indicator

9. Track Number indicator

10. Album Name indicator **(MP3-CD Only)**

11. Title (track title & artist) indicator **(MP3-CD Only)**

12. Album Number indicator

Preparation before using your unit

How to Connect

1 Connect the AC adaptor to the power input jack. Then, connect the AC plug of the adaptor to the AC outlet.

• Only use the AC adaptor supplied with your product.

➢ When you are not using this product, disconnect the AC adaptor from the AC outlet.

2 Connect the earphone to the remote control.

3 Connect the earphone jack plug to the main unit.
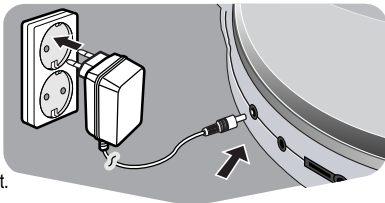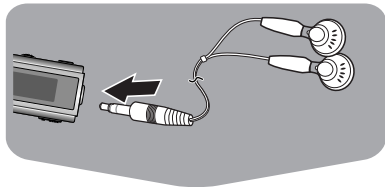
• Reduce the volume on the remote control while increasing the volume on the main unit.

Connection to External Device (if necessary)

* Your CD Player may be connected to the AUX IN jack of an external device
1. **Reduce the volume of the external device**
2. **Connect the Line Out jack to the Input jack of the device with connection cable (not supplied).**
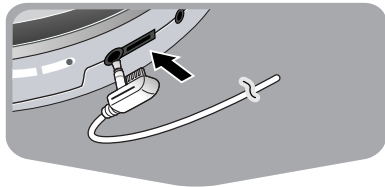
Using rechargeable batteries

1 Open the cover of the battery compartment
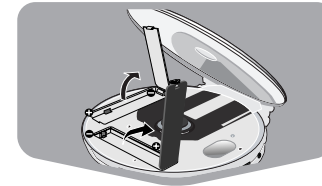
2 Insert the rechargeable batteries into the battery compartment.

• Carefully check the correct orientation of the positive and negative terminals of the battery.
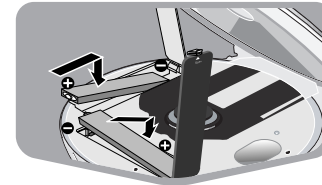
3 An AC adaptor must be connected to the AC outlet and power input.

• Charging of the rechargeable batteries will commence.

➢ **AC adaptor :** DC4.5V, 500mA

Note • **Time taken to fully charge the battery :** 10 hours
• **Battery life of fully charged battery**
  MP3-CD : 9 hours max.
  CD : 8 hours max(when ESP is off)
     6 hours 30 minutes max(when ESP is on)

Preparation before using your unit

Using standard batteries (not supplied)

1 **Attach the external battery pack as shown in the picture.**

• Then, turn the lock control to secure firmly in place.

2 **Open the cover of the battery compartment.**

3 **Carefully check the correct orientation of the positive and negative terminals of the batteries.**

• Use two AA/R6 type 1.5 V batteries.

➤ Use two AA/R6 alkaline batteries. Manganese batteries have a shorter battery life.

Battery Life (Using alkaline batteries)

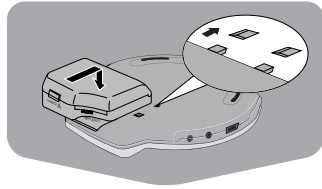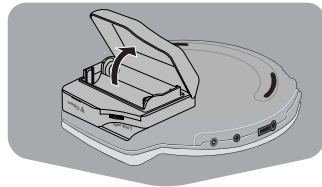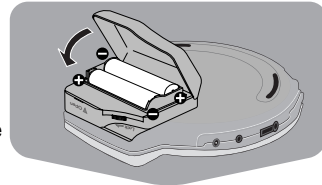|	Rechargeable Batteries	Rechargeable Batteries + Battery Pack (type AA/R6)
MP3-CD	9 hours	20 hours
CD(when ESP is off)	8 hours	16 hours
CD(when ESP is on)	6 hours 30 minutes	14 hours

Time for Battery Replacement

• Replace the batteries if the remaining battery power indicator " " flashes.
• Even though the remaining battery power indicator " " may be flashing, if the batteries have already expired, the LCD remote control will not be lit.
• Should " " flash, the player will automatically turn off the CD ESP ON mode to conserve battery power consumption.
• Standard batteries cannot be recharged.
• The external battery pack cannot charge, as it does not have the capacity to charge.

Warning
• Do not mix old and new batteries.
• Remove the batteries if they will not be used for a long time.
• Remove the standard batteries when you use an AC adaptor.

11

CD Playback

1 **Slide the Open button to open the door. Insert a CD.**

• Push the door to close it.

2 **Press the Play/Pause (►II) button.**

• Once the CD is recognized, playback commences.

01 02:14
CDDA Disc

Track Number Indicator   Playtime Indicator
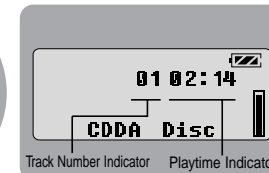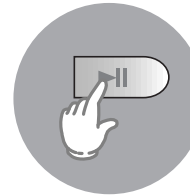
3 **To stop playback, press the Stop (■) button.**

• Press the Stop (■) button again to switch off the unit.
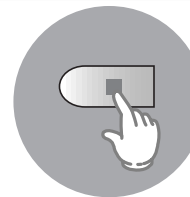
To temporarily pause playback

Press the Play/Pause (►II) button.

• Playback will be temporarily suspended.
• Press the Play/Pause (►II) button again to resume playback.

12

MP3-CD Playback

1 **Slide the Open button to open the door, and insert an MP3-CD.**

• Push the door to close it.
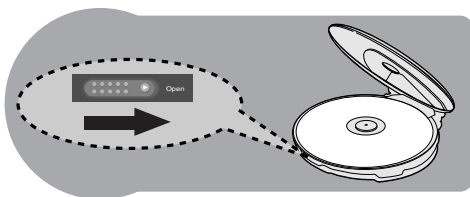
2 **Press the Play/Pause (►❙❙) button.**

• The inserted MP3-CD will be scanned for about 30~90 seconds. Playback will then commence.

➢ Your CD Player will take a few moments to scan through all the tracks recorded on a MP3 CD.

Track Number indicator

ESP indicator

Album Number indicator

Playtime indicator

Album Name indicator

Title (track title and artist) display

Anti-S.T (Anti-Shock Time) Buffer Level indicator
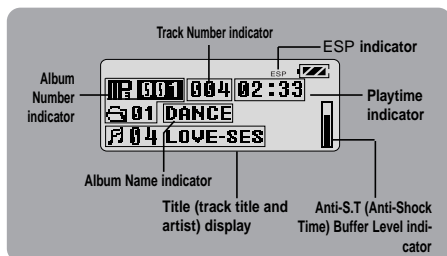
3 **To stop playback, press the Stop (■) button.**

• Press the Stop (■) button again to switch off the unit.
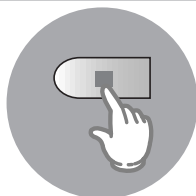
Note •When the Open switch is slid to open the door, playback will stop.

Skip/Search function

Skip

Press and release the ❙◄◄ or ►►❙ button during playback of a CD.

• Press the ►►❙ button to play the next track. Press the ❙◄◄ button to go back to the beginning of the current track. (Briefly press the ❙◄◄ button twice to repeat the previous track).

• Press the ►►❙ button while the unit is in "Stop" (no playback) mode. Track 2 will be played back. Press the ❙◄◄ button to play back the previous song.

Main Unit
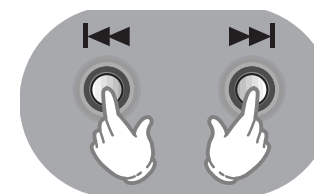
Search

Remote Control
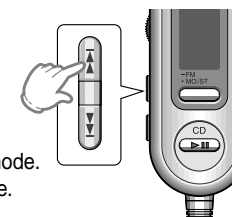
Press and hold the ❙◄◄ or ►►❙ button during playback of a CD.

• Press and hold the ❙◄◄ or ►►❙ button. The CD will playback in fast forward or fast reverse mode.
• Release the button to return to normal playback mode.

HOLD function

• Buttons pressed during CD playback will not function. (On the display, the "Hold" indicator will flash.)
• Use the HOLD function when carrying your CD Player around with you. Use of this function will allow you to conserve battery life as it prevents the CD Player from being turned on unintentionally if a button is pressed.
• The remote control will still operate while the HOLD function on the main unit is active.
• The main unit will still operate while the HOLD function on the remote control is active.
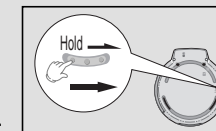
Hold

Mode function

Briefly press the Mode button to activate the Repeat function or hold it down for longer to activate the Random function.

Repeat function

Press the Mode button.
(Press Mode/P.SET button on the remote control)

• Each time the button is pressed,
REP1, **REP ALBUM** and **REP ALL**
are selected.
(REP ALBUM mode only works for MP3-CD disks which contain albums.)

Mode

```
        REP    ALL        ▭
┃⊪001  004 02:33
🖴01 DANCE
♬04 LOVE-SES          ▮
```
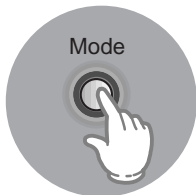
REP1	allows you to repeat the current track.
REP ALBUM (MP3-CD only)	allows you to repeat all tracks in the current album.
REP ALL	allows you to replay the entire CD once it has finished playing.

Random function

Press and hold the Mode button.

(Press and the hold Mode/P.SET button on the remote control)

• All tracks will be played back in random order.
• To cancel this function, press and hold the button again, or press the Stop (■) button.

Mode

```
              RANDOM       ▭
┃⊪001  004 03:33
🖴01 DANCE
♬04 LOVE-SES          ▮
```

Last Memory/SBS function

Briefly press the **Last Memory/SBS** button to activate the SBS function or hold it longer to activate the Last Memory function.
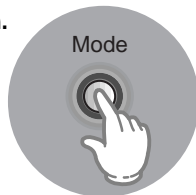
SBS (Super Bass Sound) function

This function allows you to maximize your listening enjoyment with dynamic reproduction of low-pitched sounds.

Press the Last Memory/SBS button.

• Each time the Last Memory/SBS button is pressed, SBS will be turned on and off alternately.

● L.Memory
● SBS

```
            SBS          ▭
┃⊪001  001 03:13
🖴01 DANCE
♬04 LOVE-SES          ▮
```
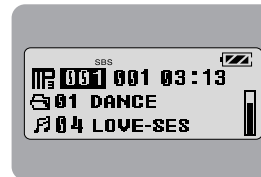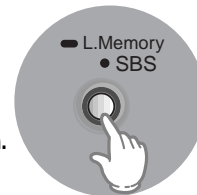
Last Memory function

This function is only available during playback of an MP3-CD.

When MP3-CD playback is selected again after your CD player has been stopped or turned off, the unit plays back from the start of the track that you last listened to.

● L.Memory
● SBS

```
                         ▭
┃⊪001  002 01:13
🖴01 DANCE
       On Last.M       ▮
```

• Press and hold the Last Memory/SBS button. Each time the button is pressed and held, the selection switches between
"**On Last.M**" and "**Off Last.M**".
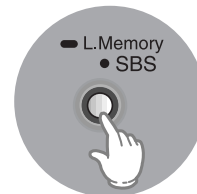
ESP/Album function

ESP (Electronic Skip Protection) function

ESP prevents the music being interrupted by vibration and shock.

Press the ESP/Album button.

• **CD Playback:** Press the ESP/Album button to turn this function on and off.
(During playback of an MP3-CD, ESP will always be active whether or not the ESP/Album button is pressed.)

ESP/Album

```
                    ESP
            01 02:04

      CDDA Disc
```

• The player buffers up to 120 seconds of MP3 and 45 seconds of audio CD data; hence even if the data flow is interrupted, data is read from memory so that the sound signal remains undisturbed.
• While listening to music, the Anti-S.T (Anti-Shock Time) Buffer Level is automatically saved.

+10 button

Main Unit   **Press the +10 button.**

15 →20 →30→ 40 → 41 →42→43

• **Press the +10 button briefly while playing back a CD. Playback will skip 10 tracks.**
Example : If you want to select track 43 during playback of track 15, press the +10 button three times, then press the ▶▶| button three times.
• **MP3-CD playback** : Press and hold the ESP/Album button longer to select "**Album Off**". The button now functions as the +10 button.

Remote Control   **Press the AL/+10/MEM on the remote control.**

• **MP3-CD playback** : By default, the button is enabled for Album function. Press and hold the button longer to select "**Album Off**". The button functions as the +10 button.
• **CD Playback** : The button functions as the +10 button only.

Album Function

• **This function is only available during playback of an MP3-CD.** Albums are sections of tracks representing one artist. This function makes it easier to skip between them.

Press the ESP/Album button.
(Press AL/+10/MEM button on the remote control)

• It moves to the next album.
Example) Pressing the ESP/Album button during playback of the first album will take you to the start of the first track of the second album.

```
  |P 002 001 00:33
  02 DANCE
  ♫
```

• This product is equipped with a graphic LCD display that supports English, Japanese (without Chinese characters), and Korean characters.
• Tag information is displayed for those files containing them. Otherwise, the file name is displayed.
• When writing your own MP3-CDs, we recommend using English for tag information as well as file names.
• Languages other than English will be marked with an asterisk "*".

Press and hold the ESP/Album button.

• Each time the button is pressed, the selection toggles between "**On Album**" and "**Off Album**".

ESP/Album

```
  |P 001 004 00:11
  01 DANCE
     On Album

  |P    020 01:14
  02 DANCE
     Off Album
```

• If "**Off Album**" is selected, the album playlist changes to the title playlist.

Note • This function does not apply to MP3-CDs that have not been created with albums.
• If a file is defective and cannot be recognized, the player skips to the next one.

Program function

You can store up to 30 tracks of your favorite tunes.

Example: When storing track number 4 to program number 1.

1 **From Stop mode, press the Program button on the main unit.**

Program

```
PROGRAM
IR P:01 Tr:----
♫
```

2 **Using |◄◄ or ►►| or +10 button, select the desired track.**

|◄◄   ►►|

```
PROGRAM
IR P:01 Tr:004
🔊01 DANCE
♫04 LOVE-SES
```

3 **Press the Program button.**
• Track number 4 is stored under program number 1 and you will be taken to program number 2.
• Continue to program the desired tracks.

Program

```
PROGRAM
IR P:02 Tr:----
🔊
♫
```

4 **Press ►|| (Play/Pause) button when programming is complete.**

```
PROGRAM
IR P 01 004 00:01
🔊01 DANCE
♫04 LOVE-SES
```

To confirm the program

• **From Stop mode, press the Program button.**
• **Each time the button is pressed, track numbers will be shown on the display according to their program sequence.**

Program

```
PROGRAM
IR C:01 Tr:004
🔊01 DANCE
♫04 LOVE-SES
```
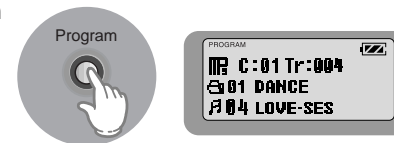
To change the program

• **To change the programmed tracks during program confirmation, use |◄◄ or ►►| to select the track to change.**
• **Press the Program button to add new tracks.**

|◄◄   ►►|
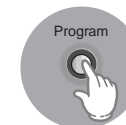
Program

To cancel the program mode

• **Press the Stop (■) button twice. The Program mode will also be canceled if the lid opens during programming.**
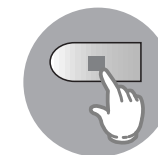
To stop program playback

• Press the Stop (■) button.
• The total number of programmed tracks as well as the total number of tracks in a given disk will be shown on the display.
• Press ►|| (Play/Pause) button to resume program playback.

Warning • During programming, if no action is performed for about 15 seconds, the player will automatically turn itself off to conserve battery power consumption.

Listening to FM Radio

To tune in to a station

1 **Press and hold the -FM button on the remote control.**

- The frequency of the received station appears on the display of the remote control.
- Press the button to select either mono or stereo (MO/ST).

-FM
• MO/ST

Main Unit

Tuner

Remote Control

93.2

2 **Automatic Tuning**

Press and hold ⏮ or ⏭ on the remote control.

- Automatically scans and tunes to the next avaiable station.

95.9

Manual Tuning

Press ⏮ or ⏭ on the remote control.

- Press the button repeatedly to tune in the desired station manually.

91.9

3 **To turn off the radio, press the Stop (■) button on the remote control.**

Note
- The radio function is available only from the remote control.
- The backlight on the display of the remote control does not work while using the radio function.
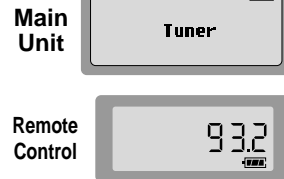- This product can only tune in FM station.

Presetting Stations

You can either manually or automatically preset and store FM stations.

Manually presetting stations

EXAMPLE: Storing an FM station at 89.1 MHz into preset number 2

1 **Tune to a station of 89.1 MHz and then press the AL/+10/MEM button on the remote control.**

- "PSET" flashes.

AL/+10/MEM.

PSET
1   89.1
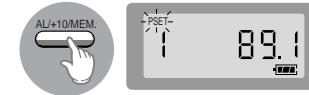
2 **Press ⏮ or ⏭ to select the preset number 2.**

- Each time the button is pressed a higher or lower preset number is selected..
- As there is no stored station data in memory, begin with the preset number 1 if you have purchased this product for the first time.

PSET
2   89.1
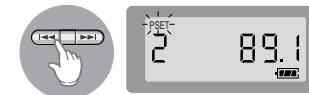
3 **Press the AL/+10/MEM button again to store the selected station.**

- The preset number disappears, indicating that the station has been stored.
- Repeat steps 1 to 3 to change the station or store other stations. You can preset up to 15 stations.

AL/+10/MEM.

89.1

Automatically presetting stations

Press and hold the Mode/P.SET button on the remote control.

- "PSET" flashes. Then, each frequency of the received station is incrementally stored into the preset numbers from 1 to 15.
- When a station is stored, the station is heard for about 3 seconds before the automatic preset tuning resumes again.

Mode/P.SET

Note
- In a poor reception area, the total number of preset stations may not reach 15.

Presetting Stations
(continued)

Tuning in to a Preset Station

1 **Press the Mode/P.SET button.**

• "PSET" and the station frequency stored under that preset number appear on the display.

PSET
2   89.1

2 **Press ⏮ or ⏭ to select the desired preset number.**

• "PSET" remains, and the frequencies of the preset stations are displayed in turn.

PSET
3   95.9

Features

Playback sequence of albums and tracks

• When using Windows Explorer.
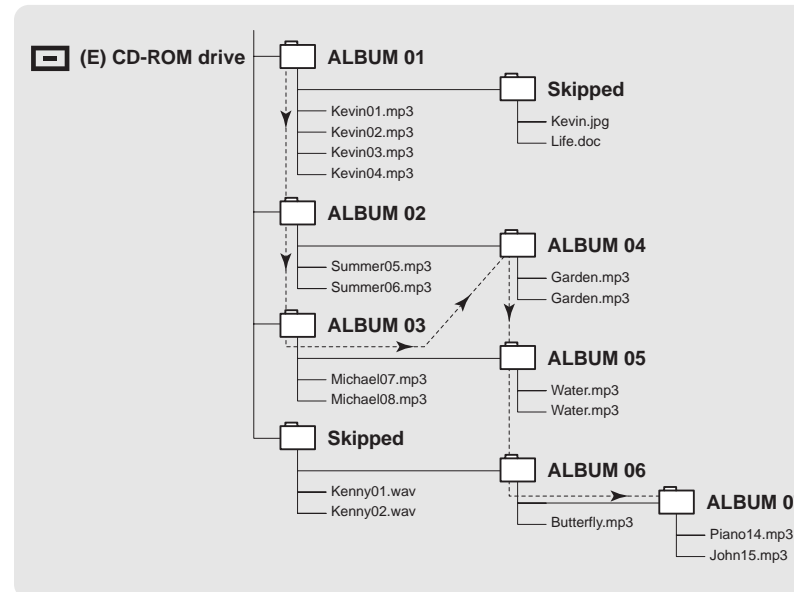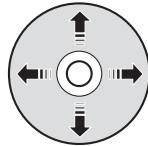• The arrows indicate playback sequence of albums and tracks.
• Albums with .jpg, .wav or .doc are not audio files and therefore will be skipped.

Maintaining and looking after your unit

Looking after your CDs

Wash the disc with a neutral detergent diluted in water, and then wipe gently with a soft dry cloth from the center of the disc to the outside.

Handling your CDs

Carefully pick up the disc by its edge without touching the disc's surface.

Do not attach stickers to the signal surface (the side with shiny, rainbow colors).

Do not write on the labeled (printed) side with a ballpoint pen or a pencil.
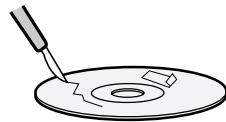
Do not clean this player with record spray or anti-static. Do not use volatile chemicals such as benzene or thinners.
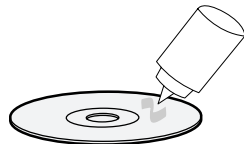
Troubleshooting Guide

Problem	Check
Unit has no power.	● Did you insert the battery with the correct polarity? ● Are the batteries drained? ● Is the AC adaptor connected correctly? ● Is the door open?
Playback does not function.	● Is the disc inserted correctly? ● Is the disc damaged or deformed? ● Has the unit been locked with the Hold switch? ● Has the unit been moved from a cold place to a hot place? Abrupt change of temperature may cause condensation to form on the lens. Keep your CD Player in a warm place until the condensation on the lens has disappeared.
Earphones don't work.	● Is the volume control on the unit at the minimum setting?
A sound or track is skipped.	● Was the unit jolted or knocked? ● Is there dust, fingerprints or scratches on the disc?
Some of the MP3 files on a CD are not recognised.	● Check if the unreadable files have .mp3 as their extension on your PC.

Specifications

Frequency range	20Hz ~ 20KHz
Signal/noise ratio	74dB
Channel Separation	65dB, 1kHz, 0dB
Total harmonic distortion	0.1%
D/A conversion	1bit, 4 times Oversampling
Earphone output	310mV(RMS), 6mW/CH
Line out output	290mV(RMS)
Scope of playback supported	Bit Rate : 64~322kbps Sampling frequency : 44.1KHz
DISC Sizes Diameter	120mm,80mm
Dimensions	129.8(W) X 19(H) X 140.5(D) mm

File Compatibility

- The unit will play back files created in MP3 format (Mpeg1.Layer 3) with *.mp3 as their extension.
- Files created in MP2 format (Mpeg1.Layer2) with *.mp2 as their extension can also be played back.

How many MP3 files can a CD-R or CD-RW disc record?

- The maximum capacity of one CD-R or CD-RW disc is 650MB.
  Normally, one MP3 file has a capacity of 4 MB, therefore approximately 170 files can be recorded on a single disc.

Memo

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GB